

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|--|---|------------------|---------|------------------|
| L4 | 5265 | chlorine near5 concentration | US-PGPUB; USPAT | OR | ON | 2006/02/13 11:21 |
| L5 | 5 | 4 and (SiOC same carbon) | US-PGPUB; USPAT | OR | ON | 2006/02/13 11:10 |
| L6 | 149 | 4 and "insulating film" | US-PGPUB; USPAT | OR | ON | 2006/02/13 11:10 |
| L7 | 0 | 6 and (SiOC same carbon) | US-PGPUB; USPAT | OR | ON | 2006/02/13 11:14 |
| L8 | 0 | 6 and (SiOC same "doped carbon") | US-PGPUB; USPAT | OR | ON | 2006/02/13 11:14 |
| L9 | 2 | ("insulating film" near10 carbon near10 ("silicon nitride" or SiOC) near10 chlorine) | US-PGPUB; USPAT | OR | ON | 2006/02/13 11:22 |
| S1 | 854 | 257/384 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 12:27 |
| S2 | 176 | S1 and ((ti or titanium) with (ni or nickel)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 12:27 |
| S3 | 136 | S1 and ((ti or titanium) adj5 (ni or nickel)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 12:28 |
| S4 | 3960 | ((257/640,642,649,651) or (438/761, 763,778,780,781,783,786,791,793, 794)).CCLS. | USPAT; USOCR | OR | OFF | 2005/09/09 12:29 |
| S5 | 2094 | S4 and (SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) | US-PGPUB; USPAT | OR | ON | 2005/09/09 12:30 |
| S6 | 756179 | "6" and carbon | US-PGPUB; USPAT | OR | ON | 2005/09/09 12:30 |
| S7 | 600 | S5 and carbon | US-PGPUB; USPAT | OR | ON | 2005/09/09 12:30 |
| S8 | 593 | S7 and (@ad<"20030805" or @rlad<"20030805") | US-PGPUB; USPAT | OR | ON | 2005/09/09 12:31 |
| S9 | 109 | S4 and ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) with carbon) | US-PGPUB; USPAT | OR | ON | 2006/02/13 10:02 |
| S11 | 205 | S4 and ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) same carbon) | US-PGPUB; USPAT | OR | ON | 2005/09/09 14:20 |
| S12 | 3 | ((("6271594") or ("5866920") or ("6333547"))).PN. | USPAT; USOCR | OR | OFF | 2005/09/09 12:35 |

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| S13 | 3780 | S4 and insulating film with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) same carbon) | US-PGPUB; USPAT | OR | ON | 2005/09/09 14:55 |
| S14 | 109 | S4 and "insulating film" with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) same carbon) | US-PGPUB; USPAT | OR | ON | 2005/09/09 14:20 |
| S15 | 110 | S4 and "insulating film" with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) same carbon) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:09 |
| S17 | 0 | S4 and "insulating film" with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) near carbon) | US-PGPUB; USPAT | OR | ON | 2005/09/09 14:56 |
| S18 | 11 | S4 and ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) near carbon) | US-PGPUB; USPAT | OR | ON | 2005/09/09 14:56 |
| S19 | 0 | S4 and "insulating film" with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) near carbon) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:10 |
| S20 | 370 | S4 and "insulating film" with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) containing carbon) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:13 |
| S21 | 0 | S4 and "insulating film containing carbon" with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4"))) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:13 |
| S22 | 110 | S4 and "carbon" with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4"))) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:22 |
| S23 | 2172 | S4 and (carbon adj doped (SiN or (silicon adj nitride) or ("si.sub.3N.sub.4"))) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:23 |
| S24 | 2172 | S4 and ("carbon doped" (SiN or (silicon adj nitride) or ("si.sub.3N.sub.4"))) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:23 |
| S25 | 2060077 | S4 and insulating film("carbon doped" (SiN or (silicon adj nitride) or ("si.sub.3N.sub.4"))) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:24 |

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| S26 | 387342 | S4 and "insulating film"("carbon doped" (SiN or (silicon adj nitride) or ("si.sub.3N.sub.4"))) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:24 |
| S27 | 158 | S4 and "insulating film" adj5 ("carbon doped" (SiN or (silicon adj nitride) or ("si.sub.3N.sub.4"))) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:28 |
| S28 | 2 | S4 and ("carbon doped" near (SiN or (silicon adj nitride) or ("si.sub.3N.sub.4"))) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/09/09 15:28 |
| S29 | 99 | "metal silicide" with "stacked structure" | US-PGPUB; USPAT | OR | ON | 2005/09/09 15:59 |
| S30 | 1 | "metal silicide" with "metal stacked structure" | US-PGPUB; USPAT | OR | ON | 2005/09/09 15:59 |
| S31 | 99 | "metal silicide" with "stacked structure" | US-PGPUB; USPAT | OR | ON | 2005/09/12 11:21 |
| S32 | 0 | "metal on metal" with "stacked structure" | US-PGPUB; USPAT | OR | ON | 2005/09/09 16:02 |
| S33 | 17 | "metal stacked structure" | US-PGPUB; USPAT | OR | ON | 2005/09/12 10:36 |
| S34 | 1 | "metal silicide layer" with "multiple-layered structure" | US-PGPUB; USPAT | OR | ON | 2005/09/12 10:10 |
| S35 | 312 | (SiN and carbon) with (insulating with (film or layer)) | US-PGPUB; USPAT | OR | ON | 2005/09/12 10:38 |
| S36 | 5 | (SiN and carbon) adj4 (insulating with (film or layer)) | US-PGPUB; USPAT | OR | ON | 2005/09/12 10:39 |
| S37 | 518 | (SiN with containing carbon) adj4 (insulating with (film or layer)) | US-PGPUB; USPAT | OR | ON | 2005/09/12 10:49 |
| S38 | 10 | "silicon carbon nitride film" | US-PGPUB; USPAT | OR | ON | 2005/09/12 10:55 |
| S39 | 1442639 | insulating layer | US-PGPUB; USPAT | OR | ON | 2005/09/12 12:27 |
| S40 | 587 | S39 and sicn | US-PGPUB; USPAT | OR | ON | 2005/09/12 10:56 |
| S41 | 3962 | ((257/640,642,649,651) or (438/761, 763,778,780,781,783,786,791,793, 794)).CCLS. | USPAT; USOCR | OR | OFF | 2005/09/12 11:05 |
| S42 | 109 | S41 and ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) with carbon) | US-PGPUB; USPAT | OR | ON | 2005/09/12 11:09 |
| S43 | 106 | S42 and (@ad<"20030805" or @rlad<"20030805") | US-PGPUB; USPAT | OR | ON | 2005/09/12 11:10 |
| S44 | 1 | S43 and (carbon-doped with SiN) | US-PGPUB; USPAT | OR | ON | 2006/02/13 09:53 |

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| S45 | 126 | S41 and (SiCN or (SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) with carbon) | US-PGPUB; USPAT | OR | ON | 2005/09/12 11:10 |
| S46 | 122 | S45 and (@ad<"20030805" or @rlad<"20030805") | US-PGPUB; USPAT | OR | ON | 2005/09/12 12:08 |
| S47 | 2 | S41 and "metal silicide" with "stacked structure" | US-PGPUB; USPAT | OR | ON | 2005/09/12 11:22 |
| S48 | 1 | S41 and "metal stacked structure" | US-PGPUB; USPAT | OR | ON | 2005/09/12 11:22 |
| S49 | 99 | "metal silicide" with "stacked structure" | US-PGPUB; USPAT | OR | ON | 2005/09/12 13:39 |
| S50 | 87 | S49 and (@ad<"20030805" or @rlad<"20030805") | US-PGPUB; USPAT | OR | ON | 2005/09/12 11:23 |
| S51 | 3 | (SiCN with chlorine) and (@ad<"20030805" or @rlad<"20030805") | US-PGPUB; USPAT | OR | ON | 2005/09/12 12:14 |
| S52 | 23 | (SiCN with hydrogen) and (@ad<"20030805" or @rlad<"20030805") | US-PGPUB; USPAT | OR | ON | 2005/09/12 12:14 |
| S53 | 1042941 | insulating film | US-PGPUB; USPAT | OR | ON | 2005/09/12 12:27 |
| S54 | 52933 | insulating adj film | US-PGPUB; USPAT | OR | ON | 2005/09/12 12:27 |
| S55 | 10672 | S54 and carbon | US-PGPUB; USPAT | OR | ON | 2005/09/12 12:27 |
| S56 | 6408 | S55 and (chlorine or hydrogen) | US-PGPUB; USPAT | OR | ON | 2005/09/12 12:28 |
| S57 | 284 | S55 and (concentration adj (chlorine or hydrogen)) | US-PGPUB; USPAT | OR | ON | 2005/09/12 13:08 |
| S58 | 2637418 | (SiCN containing (H or hydrogen)) | US-PGPUB; USPAT | OR | ON | 2005/09/12 13:09 |
| S59 | 115 | (SiCN same (H or hydrogen)) | US-PGPUB; USPAT | OR | ON | 2005/09/12 13:26 |
| S60 | 2 | (SiCN same (H or hydrogen)with concentration) | US-PGPUB; USPAT | OR | ON | 2005/09/12 13:09 |
| S61 | 831080 | SiCNH film | US-PGPUB; USPAT | OR | ON | 2005/09/12 13:27 |
| S62 | 2345384 | Insulating film contains SiCNH | US-PGPUB; USPAT | OR | ON | 2005/09/12 13:27 |
| S63 | 3 | "Insulating film" with SiCNH | US-PGPUB; USPAT | OR | ON | 2005/09/13 12:23 |
| S64 | 0 | "stacked metal silicide structure" | US-PGPUB; USPAT | OR | ON | 2005/09/12 13:39 |
| S65 | 2 | "stacked metal layer structure" | US-PGPUB; USPAT | OR | ON | 2005/09/12 15:31 |

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| S66 | 76 | "Insulating film" with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) with (H or hydrogen) with (C or carbon)) | US-PGPUB; USPAT | OR | ON | 2005/09/13 12:28 |
| S67 | 0 | "Insulating film" with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) with (H or hydrogen) with (C or carbon) with (Cl or chlorine)) | US-PGPUB; USPAT | OR | ON | 2005/09/13 12:26 |
| S68 | 64 | ("Insulating film" with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) with (H or hydrogen) with (C or carbon))) and (@ad<"20030805" or @rlad<"20030805") | US-PGPUB; USPAT | OR | ON | 2005/09/13 13:12 |
| S69 | 4 | ("Insulating film" with ((SiCN with (H or hydrogen))) and (@ad<"20030805" or @rlad<"20030805")) | US-PGPUB; USPAT | OR | ON | 2005/09/13 13:14 |
| S70 | 33 | ((SiCN with (H or hydrogen)) and (@ad<"20030805" or @rlad<"20030805")) | US-PGPUB; USPAT | OR | ON | 2005/09/13 14:31 |
| S71 | 1 | "20050009320" | US-PGPUB; USPAT | OR | ON | 2005/09/13 13:32 |
| S72 | 16 | ((SiCNH) and (@ad<"20030805" or @rlad<"20030805")) | US-PGPUB; USPAT | OR | ON | 2005/09/13 14:57 |
| S73 | 120 | ((SiN) with carbon with hydrogen and (@ad<"20030805" or @rlad<"20030805")) | US-PGPUB; USPAT | OR | ON | 2005/09/13 14:57 |
| S74 | 1 | ((("6049092") or ("20020024119")).PN. | USPAT; USOCR | OR | OFF | 2005/09/14 09:17 |
| S75 | 0 | ("20020024119").PN. | USPAT; USOCR | OR | OFF | 2005/09/14 09:18 |
| S76 | 1 | "20020024119" | US-PGPUB; USPAT | OR | ON | 2005/09/14 09:18 |
| S77 | 0 | (carbon-doped with SiN) with chlorine | US-PGPUB; USPAT | OR | ON | 2006/02/13 09:53 |
| S78 | 24 | (carbon-doped with SiN) | US-PGPUB; USPAT | OR | ON | 2006/02/13 09:56 |
| S79 | 1256 | ((carbon-doped with SiN) or "SiOC") | US-PGPUB; USPAT | OR | ON | 2006/02/13 09:59 |
| S80 | 158 | S79 and chlorine | US-PGPUB; USPAT | OR | ON | 2006/02/13 09:58 |
| S81 | 11 | S78 and chlorine | US-PGPUB; USPAT | OR | ON | 2006/02/13 09:57 |
| S82 | 8 | ((carbon-doped with SiN) or "SiOC") same chlorine | US-PGPUB; USPAT | OR | ON | 2006/02/13 09:59 |
| S83 | 7659 | ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) with carbon) | US-PGPUB; USPAT | OR | ON | 2006/02/13 10:02 |

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|-----|------|--|--------------------|----|-----|------------------|
| S84 | 4086 | ((257/640,642,649,651) or (438/761,763,778,780,781,783,786,791,793,794)).CCLS. | USPAT; USOCR | OR | OFF | 2006/02/13 10:02 |
| S85 | 117 | S84 and ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) with carbon) | US-PGPUB; USPAT | OR | ON | 2006/02/13 10:03 |
| S86 | 2079 | S84 and insulating film with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) near carbon) | US-PGPUB; USPAT | OR | ON | 2006/02/13 10:06 |
| S87 | 188 | S86 and chlorine | US-PGPUB; USPAT | OR | ON | 2006/02/13 11:02 |
| S88 | 1948 | S84 and insulating film with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) near carbon) near15 chlorine | US-PGPUB; USPAT | OR | ON | 2006/02/13 10:07 |

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| L1 | 711 | ((257/649) or (438/783)).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2006/02/13 11:47 |
| L2 | 157 | 1 and (insulating film with ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) near carbon) near15 chlorine). clm. | US-PGPUB; USPAT | OR | ON | 2006/02/13 11:52 |
| L3 | 157 | 1 and (insulating film near ((SiN or (silicon adj nitride) or ("si.sub.3N.sub.4")) near carbon) near15 chlorine). clm. | US-PGPUB; USPAT | OR | ON | 2006/02/13 11:52 |